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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/724,077

12/01/2003

Chandrakant D. Patel

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EXAMINER

DATSKOVSKIY, MICHAEL V

ART UNIT

PAPER NUMBER

2835

DATE MAILED: 11/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/724,077

Applicant(s)

PATEL, CHANDRAKANT D.

Examiner

Michael V. Datskovskiy

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2835

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-39 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,4,5,7-9,14,15,17,18,21,24,27,30-32 and 34 is/are rejected.
- 7) ☒ Claim(s) 2,3,6,10-13,16,19,20,22,23,25,26,28,29,33 and 35-39 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>12/01/2003</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

2. Claim 1 and depended claims 2-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
3. Claim 1 recites the limitation "the housing" in lines 3-4. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1, 4-5, 8-9, 14-15, 17-18, 24, 27, 30-32, 34 are rejected under 35 U.S.C. 102(e) as being anticipated by Masuda et al (JP02003075081).

Masuda et al teach a cooling system 4 for a display projector, Figs. 1-9, said display projector having a plurality of panels substantially enclosing a heat-generating component 5, said cooling system comprising: means 42, 43 for conducting heat from

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the heat –generating component 5 to at least one panel 47 of the housing 41; and means for dissipating heat the conducted heat, wherein the means for dissipating heat comprises at least one panel 47 of the display projector. Masuda et al teach furthermore: said cooling system further comprises means 42 for supporting the heat –generating component 5 on two side panels of the display projector, said means 42 is also for conducting heat; said system further comprising cooling fins 48 for increasing heat dissipation; said means for conducting heat further comprising means 43-45 for collecting heat conducted by the heat conducting member 42 and for conducted heat to the means 47 for dissipating heat, wherein said means for conducting heat further comprising a thermosiphon (a heat pipe) 400 containing a low boiling fluid, an evaporator section 45 connected to the heat generating component 5, a condenser section 45 thermally removably connected to the means 47 for dissipating heat, and a wicking material. Regarding to the claim 34: The method steps are inherently necessitated by the device structure as Masuda et al teach it.

6. Claims 1, 4-5, 7-9, 18, 21, 34 are also rejected under 35 U.S.C. 102(e) as being anticipated by Wu et al.

Wu et al teach as a prior art: a cooling system for a display projector, Figs. 1-2 and col. 1, lines 20-63, said display projector having a plurality of panels substantially enclosing a heat-generating component , said cooling system comprising: means for conducting heat from the heat –generating component to at least one panel of the housing; and means for dissipating heat the conducted heat, wherein the means for dissipating heat comprises at least one panel of the display projector. Wu et al teach furthermore: said

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cooling system further comprises means for supporting the heat –generating component on two panels of the display projector, said means is also for conducting heat.

Allowable Subject Matter

7. Claims 2-3, 6, 10-13, 16, 19-20, 22-23, 25-26, 28-29, 33, 35-39 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

8. The following is a statement of reasons for the indication of allowable subject matter: The cooling system according to claim 1, wherein the means for dissipating heat comprises a panel containing a working fluid having relatively low boiling point temperature (claims 2, 4, 19, 22, 23); The cooling system according to claim 1, wherein the means for dissipating heat comprises a chamber housing a working fluid (claims 3, 20); The cooling system according to claim 9, wherein the heat generating device comprises a projecting device having a lamp reflector, and wherein the one or more heat conducting members are thermally connected to the lamp reflector (claims 10, 12, 13, 16, 25, 28, 29, 35-39); The cooling system according to claim 9, wherein the heat generating device comprises a projecting device having a lamp reflector, said cooling system further comprising a cover device for thermal connection to the lamp reflector (claims 11, 26).

9. The prior art made of record provided in the PTO Form 892 and not relied upon is considered pertinent to applicant's disclosure.

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10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael V. Datskovskiy whose telephone number is (571) 272-2040. The examiner can normally be reached on 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached on (571) 272-2092. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Michael V Datskovskiy
Primary Examiner
Art Unit 2835

11/07/2005